CLAIM AMENDMENTS

1   1. – 11. (Canceled)

1   12. (Currently amended)   A method for use in a node of a network comprising

2   the steps of:

3   storing location information of other nodes of the network, wherein said location

4   information comprises a global position represented by at least two coordinates,

5   exchanging the stored location information with adjacent nodes of the network,

6   and

7   wherein said node stores a local topology having at least one other node with a

8   continually changing position, said local topology having the location information of said

9   at least one other node and connections between said node and said at least one other

10   node, and said node stores said location information of other nodes within and outside

11   of said local topology.

1   13. (Previously presented) The method of claim 12, wherein said node uses a

2   geometry-based routing protocol to transmit said location information to nodes outside

3   of said local topology.

1   14. (Previously presented) The method of claim 13, wherein said node

2   determines a distance from a destination node outside of said local topology to nodes in

3   said local topology using said geometry-based routing protocol and said location

4   information to identify the closest node in said local topology for routing to said

5   destination node.

1   15. (Previously presented) The method of claim 12, wherein said node

2   determines said coordinates from information received from a global positioning system.

1   16. (Canceled)

1   17. (Previously presented) The method of claim 12, said local topology of said

2   node being nodes located within a predetermined number of hops from said node.

1   18. (Previously presented) The method of claim 17, wherein said local topology

2   of said node comprises a first set of nodes having a point-to-point link to said node and

3   a second set of nodes having a point-to-point link to a node in said first set of nodes.

1   19. (Canceled)

1   20. (Currently amended) A method of creating a local topology of a node in a

2   network, said local topology being stored by said node and having i) a list of direct

3   neighbors of said node, ii) a location of said direct neighbors, and iii) connections

4   between said node and said direct neighbors, comprising the steps of:

5   identifying said direct neighbors of said node, said direct neighbors being a

6   subset of nodes within hearing distance of said node;

7   constructing point-to-point links from said node to at least some of said direct

8   neighbors;

9   transmitting information about [[a]] said location of said direct neighbors to other

10   nodes of the network, wherein said location information includes a global position

11   represented by at least two coordinates.

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1   21. (Currently amended) The method of claim 20, wherein the step of identifying

2   said direct neighbors further comprises the step of collecting global position information

3   of nodes.

1   22. (Previously presented) The method of claim 21, wherein the step of collecting

2   global position information further comprises the step of selecting nodes for said point-

3   to-point links as a function of said global position information.

1   23. (Previously presented) The method of claim 20, wherein said information

2   about said location of said direct neighbors further includes associated time-stamp

3   information indicating an age of the location information of at least some of the nodes of

4   the network.

1   24. (Previously presented) The method of claim 20, wherein said transmitting

2   step is repeated periodically.

1   25. (Currently amended) A method of updating a local topology of a node in a

2   network, said local topology being stored by said node and having i) a list of direct

3   neighbors of said node, ii) a location of said direct neighbors, and iii) connections

4   between said node and said direct neighbors, comprising the steps of:

5   identifying said direct neighbors of said node, said direct neighbors being a

6   subset of nodes within hearing distance of said node;

7   constructing point-to-point links from said node to at least some of said direct

8   neighbors;

9   transmitting, at different times, information about [[a]] said location of said direct

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10   neighbors to other nodes of the network, wherein said location information includes a

11   global position represented by at least two coordinates.

1   26. (Currently amended) The method of claim 25, wherein the step of identifying

2   said direct neighbors further comprises the step of collecting global position information

3   of nodes.

1   27. (Previously presented) The method of claim 26, wherein the step of collecting

2   global position information further comprises the step of selecting nodes for said point-

3   to-point links as a function of said global positioning information.

1   28. (Previously presented) The method of claim 25, wherein said information

2   about said location of said direct neighbors further includes associated time-stamp

3   information indicating an age of the location information of at least some of the nodes of

4   the network.

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